

# Deborah J. Ortiz-Young

**PROFILE:** Self-motivated, mature, focused and ambitious with a Master's of Science Degree and a Bachelor's of Science degree in Chemistry. Engaged in local community environmental justice issues, concerning surface water quality and holding Dekalb County accountable for infrastructure spending. (Pending acceptance to the Dekalb Watershed Capital Improvement Projects Citizens Advisory Group). I've also worked with the South River Watershed Alliance, with river clean-up, outreach, grant applications, etc. I'm an experienced environmental educator on the collegiate level, Region 4 EPA Environmental Justice Academy Graduate, and part of the nascent Georgia Environmental Justice Alliance.

## Work Experience

Accura Engineering and Consultants  
Atlanta, GA  
United States  
Senior Research Analyst

Feb 2016 – Present

Average hours per week: 40  
Supervisor: Julie Green  
Phone

Reviewing, understanding and summarizing documents from business activities, including chancery clerk documents, state environmental documents, EPA documents, permits, Notices of violations and deficiencies, Consent decrees, evidence of community involvement including town hall meetings and other documentation to inform the community about pollution as well as environmental and health risk assessments to write potentially responsible party (PRP) reports on Superfund sites in an effort to hold a business/company financially accountable for the clean-up. I'm also preparing to do community involvement work, this includes outreach to communities that have superfund sites to educate them about the remediation process, the toxins, the potential health effects of contaminations and empowering local community organizations in various ways including conducting environmental health risks and assessments.

Atlanta Technical College  
Atlanta, GA  
United States  
Bioscience Instructor & Exposure Control Coordinator

Jan 2014-Dec 2015

Average hours per week: 40  
Supervisor: Barry Bates  
Phone

Previous Courses: Environmental Lab Testing Methods, Pollution and Remediation, Inorganic Chemistry Inorganic Chemistry, Regulatory Compliance, Chemistry I and II, Qualitative Analysis Lecture & Lab

Served as the Exposure Control Coordinator for the College

Conducted a preliminary health risk assessment and disparity study on the link between Cancer, and Repository Health Data, Demographics and Georgia's Coal Fire Power Plants while getting data from state, local, and tribal agencies' ambient air monitoring programs to present a deeper understanding of the relationship between air quality and health

monitoring biological, chemical, and physical health of Periksen park through Adopt-A-Stream	A tour of the award winning the Clayton County Wetlands
Fieldwork at wastewater treatment plants	Guest lectures from environmental professionals
Assignments on the FDA regulations of organic foods and common hair care products	A tour of the largest Environmental Testing Laboratory in the Southeast
Assignments with the goal of students to understand the Hazards associated with Pesticides & Herbicides	Enacted a project of students monitoring the indoor air quality of the school with handheld CO <sub>2</sub> monitors

Teach students which factors would require environmental and health risk disparity studies	Empower and engage students to become environmental activists in their home community
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Morehouse College Upward Bound Math/Science Southeastern Regional Institute  
 Atlanta, GA  
 United States  
 Research Coordinator

May – July 2014

Average hours per week: 20  
 Supervisor: Sallie Saunders  
 Phone

- Course Environmental Science
  - Highlights Include: Trips to the Atlanta's Botanical Garden, Urban Gardens, Cascade Nature Preserve and two independent research projects developed and executed in 3 weeks investigating the germination/ growth of wheat under acidic and basic conditions as well as assessing the physical and chemical health of a local, famously polluted stream. Students also presented their research findings.

Adjunct Faculty, Spelman College, Atlanta, GA  
 Spelman College Environmental Science and Studies Program  
 Atlanta, GA  
 United States  
 Adjunct Instructor

Aug 2013-May 2014

Average hours per week: 15  
 Supervisor: Terezinha Galvão  
 Phone

Environmental Science and Studies Program

Aug 2013 – May 2014

- Intro to Environmental Studies Lecture and Laboratory (Taught Lecture and Lab)  
 Emphasized pollution, waste reduction, sustainability, global warming, environmental justice, GIS
- Environmental Chemistry Lecture and Laboratory  
 (Air pollution modeling, geochemistry modeling, Understanding greenhouse gases, cycling of air pollutants)

Spelman College Department of Chemistry and Biochemistry  
 Atlanta, GA  
 United States  
 Adjunct Instructor

Jan 2013-May 2013

Average hours per week: 12  
 Supervisor: Leyte Winfield  
 Phone

Department of Chemistry and Biochemistry

- Courses: Organic Chemistry Laboratory I (Taught 2)
  - Emphasized Total Synthesis, Product Isolation, Gas Chromatography, Liquid Chromatography (LC), Mass Spectrometry (MS)

NewTech Co DBA Rockcrest Investments  
 Marietta, GA  
 United States  
 Consulting Hazardous Waste Manager

June 2013-Oct 2014

Average hours per week: 10  
 Supervisor: Sherman Maddux

NewTech, a small, Veteran-run business that obtains federal government contracts  
 Co-authored disposal management plans, and other plans to secure a \$15 mil 5 year contract to transport and dispose of hazardous waste from various Federal Law Enforcement Training Centers within DOT and EPA regulations regarding the handling, transporting and disposing of hazardous waste/materials  
 Coordinating Hazardous Waste plan, including transport, waste identification and profiling, EPA & DOT labeling, coordinating manifests, licenses, permits, and certificates for the disposal of RCRA Hazardous Waste, within regulatory compliance. Assisted in the preparation of permits for treatment, storage, and disposal facilities for RCRA waste

Bron Cleveland Associates  
Marietta, GA  
United States  
Environmental Consultant Intern

Jan-May 2013

Average hours per week: 15  
Supervisor: Ligia Florim  
Phone

Filed National Environmental Protection Agency (NEPA) documents for local transportation enhancement projects, including, Air, Ecology, Noise, Categorical Exclusions and Section 106  
Researched Phase I contamination and performing chemical, biological, and health tests on waterways

Atlanta, Ga  
United States  
Graduate Research Assistant

Average hours per week: 50  
Supervisor: Elisa Riedo PhD  
Phone

Project Title: Water Nano-hydrodynamics: Interplay among Interfacial Viscosity, Slippage & Wetting

Utilized Atomic Force Microscopy to investigate link of wettability, viscosity, & slip of nanoconfined water  
Characterized the roughness, morphology and wettability of various surfaces (metals, semimetals semiconductors, and insulators) using AFM, SEM, contact angle measurements, and ellipsometry)  
Performed database management and analyses on large amounts of acquired data  
Served as lead for updating chemical inventory database, hazardous waste collection/disposal and training

## EDUCATION

Completed Masters of Science (M.Sc.) Degree, Chemistry; in

Completed Bachelors of Science (B.S.) Degree, Chemistry,

## PUBLICATIONS

"The interplay between apparent viscosity and wettability in nanoconfined water" **Deborah Ortiz-Young**, Hsiang-Chih Chiu, Suenne Kim, Kislou Voitchovsky and Elisa Riedo ***Nature Communications*** 4:2484(2013)

"Nanorheology by Atomic Force Microscopy" Tai-De Li, Douglas Chiu, **Deborah Ortiz**, and Elisa Riedo  
Accepted ***Reviews of Scientific Instruments*** (2014)

"Evaluating the Economic Impact of Water Regulation and Sustainability on Urban Supply Chain Facility Planning" Jairo De Jesus, **Deborah J. Ortiz**, Felicia Jefferson, Erick C. Jones ***International Journal of Supply Chain Management*** 4: (2014) (Page Number not yet available)

"Gender differences in obstructive sleep apnea and the associated public health burden." J. McKinney, D Ortiz-Young, and F Jefferson, F. (2015), ***Sleep and Biological Rhythms***, 13: 196–209

## CERTIFICATIONS

Hazardous Materials Transport Training **49 CFR 172.704** (Department of Transportation)  
Hazardous Waste Management **40 CFR 262.34 & 265.16** (Environmental Protection Agency)  
40 Hour HAZWOPER

## AWARDS

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EPA Region 4 Environmental Justice Academy Graduate  
Graduate Assistance in Areas of National Need Fellowship  
Cherry Emerson Fellowship  
Undergraduate Dean's Award  
National Institutes of Health Minority Access to Research Careers Fellowship